

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MD030PCT		FOR FURTHER ACTION	See Form PCT/IPEA/416																								
International application No. PCT/JP2004/006103	International filing date (day/month/year) 27.04.2004	Priority date (day/month/year) 28.04.2003																									
International Patent Classification (IPC) or national classification and IPC																											
Applicant MITSUBOSHI DIAMOND INDUSTRIAL CO., LTD.																											
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>6</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>31</u> sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <table border="0"><tr><td><input checked="" type="checkbox"/></td><td>Box No. I</td><td>Basis of the report</td></tr><tr><td><input type="checkbox"/></td><td>Box No. II</td><td>Priority</td></tr><tr><td><input type="checkbox"/></td><td>Box No. III</td><td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td></tr><tr><td><input type="checkbox"/></td><td>Box No. IV</td><td>Lack of unity of invention</td></tr><tr><td><input checked="" type="checkbox"/></td><td>Box No. V</td><td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td></tr><tr><td><input checked="" type="checkbox"/></td><td>Box No. VI</td><td>Certain documents cited</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VII</td><td>Certain defects in the international application</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VIII</td><td>Certain observations on the international application</td></tr></table>				<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input checked="" type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<input type="checkbox"/>	Box No. VIII	Certain observations on the international application																									
Date of submission of the demand		Date of completion of this report																									
Name and mailing address of the IPEA/JP		Authorized officer																									
Facsimile No.		Telephone No.																									

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/006103

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
 - ☐ publication of the international application (Rule 12.4)
 - ☐ international preliminary examination (Rule 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

- ☐ the international application as originally filed/furnished
- ☒ the description:

pages 1-61 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

- ☒ the claims:
- nos. see supplemental box as originally filed/furnished

nos.* see supplemental box as amended (together with any statement) under Article 19

nos.* _____ received by this Authority on _____

nos.* _____ received by this Authority on _____

- ☒ the drawings:
- sheets 1-21 as originally filed/furnished

sheets* _____ received by this Authority on _____

sheets* _____ received by this Authority on _____

- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☒ the claims, nos. 7, 55

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/006103

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-6, 8-54, 56-96	YES
	Claims		NO
Inventive step (IS)	Claims	1-6, 8-54, 56-96	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-6, 8-54, 56-96	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: WO 2002/057192 A1 (Mitsuboshi Diamond Ind. Co., Ltd.), 25 July 2002, claims; page 21, line 15 to page 23, line 14; fig. 19 to 21

Document 2: JP 60-112634 A (Bando Kiko Co., Ltd.), 19 June 1985, claims; page 2, lower right column, line 7 to page 3, upper left column, line 10, fig. 3 to 5

Document 3: JP 52-76317 A (Nippon Sheet Glass Co., Ltd.), 27 June 1977, claims; page 2, lower left column, line 12 to page 3, upper left column, line 14; fig. 1 to 3

Document 4: JP 2000-63137 A (Toyota Motor Corporation), 29 February 2000, claims; paragraphs [0012] to [0027]; fig. 1 to 4

Document 5: JP 11-116260 A (Mitsuboshi Diamond Ind. Co., Ltd.), 27 April 1999, paragraphs [0015], [0016], [0045] and [0046]; fig. 4 and 20

The inventions set forth in claims 1 to 6, 8 to 54 and 56 to 96 are not disclosed in any of the documents cited in the international search report, and would not be obvious to a person skilled in the art.

Documents 1 to 5 set forth a brittle board dividing

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

device, wherein a pressing means comprising a roller is moved along a scribe line, but a feature wherein a groove is formed in said pressing means to ensure that the pressing means does not come into direct contact with the scribe line, is neither disclosed nor suggested in any of the documents, and would not be obvious to a person skilled in the art.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2003-286044 A [EA]	07.10.2003	27.03.2002	

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

(continued from Box I.2)

Claims 4-6, 9-12, 14, 16, 18-28, 30, 39-43, 45, 47, 52-54, 57-60, 62, 64, 66-76, 78, 87-91, 93, 95 as originally filed/furnished

Claims 1-3, 8, 13, 15, 17, 29, 31-38, 44, 46, 48-51, 56, 61, 63, 65, 77, 79-86, 92, 94 and 96 as amended (together with any statement) under Article 19